

GLOBAL EMISSIONS INVENTORIES

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Abstract

Many trace chemical species in the atmosphere are radiatively important and may affect climate and air quality. Detailed and accurate emissions inventories are essential for understanding the changing chemical composition of our atmosphere, and to establish compliance with international treaties. Currently climate and chemistry model predictions are limited by the paucity of quality emissions data input. This paper is designed to present the most up-to-date compilation of emissions inventories for radiatively important trace species. It reports the spatial and temporal characteristics of the emissions along with some interpretive comments. Except for most of North America and Western Europe, detailed regional inventories are scarce for almost all radiatively important trace species.

This work was performed under the auspices of the U.S. Department of Energy at the Lawrence Livermore National Laboratory under contract no. W-7405-Eng-48.